args and kwargs

```
def greet(*args, **kwargs): #args and kwargs are just names
    print("Hello World", args, kwargs)


greet(445,5657,a=10)
greet()
```

Python Namespace and scope

```python
x="global"
def g():
    x="enclosing"
    def e():
        x="local"
        print(x)
    e()
g())
```

Modules

A module is a file with some Python code. We use modules to break up our gigantic program into multiple files.

There are 2 ways to import modules: we can import the entire module, or specific function in a module.

```
---------------------

# importing the entire MathFun module
import MathFun

# importing one function in the Mathfun module
from MathFun import add
```

Module vs Script

```
def sayHello():
    print("Hello")
--------------------------
def sayHello():
    print("Hello")
sayHello()
```

Exception Handling (Syntax)

Exceptions are errors that crash our programs. We must anticipate and handle these exceptions to prevent our programs from crashing.

```
----------------
try:
    # Some Code....
except:
    # Handle Exception Here

else:
    # Executed if no exception

finally:
    # Always executed
```

Raising Exception

```
x = -5
if x < 0:
   raise Exception("Sorry, no numbers below zero")
```
………………………………….
```
x = "hello"

if not type(x) is int:

   raise TypeError("Only integers are allowed")
```